

Claims

1. Receiver for an angle-modulated optical signal (S) at a light frequency, which is injected into an optical resonator (FPR),

said optical resonator (FPR) being preceded by an optical coupling-out device (OU) for reflected light (RL) from the optical resonator (FPR),

and wherein the optical coupling-out device (OU) is followed by an opto-electric transducer (OE1),

characterized in that, to determine the phase of the optical signal (S), the optical resonator (FPR) has a resonance frequency which is tuned to the light frequency.

2. Receiver according to Claim 1,

characterized in that the optical resonator (FPR) is a Fabry-Perot resonator.

3. Receiver according to one of Claims 1 to 2,

characterized in that the optical coupling-out device (OU) has a circulator (ZIRK) connected preceding the optical resonator (FPR) and whose output is connected to the opto-electric transducer (OE1).

4. Receiver according to one of Claims 1 to 2,

characterized in that the optical coupling-out device (OU) has a polarization beam splitter (PST) with a following polarization plate (PP) so that the angle-modulated optical signal (S) and the reflected light (RL) have different

polarizations which can be separated by the polarization beam splitter.

5. Receiver according to one of preceding Claims,

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characterized in that a second opto-electric transducer (OE2)
is connected following the optical resonator (FPR) in order to
increase the sensitivity.

- 5 6. Receiver according to one of preceding Claims,
characterized in that there is provided a coding for
assignment of the phase variation by means of the light
reflected and possibly transmitted by the optical resonator
(FPR).